

FULHAM
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LED Retrofit Kits

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Table of Contents



3 **New Products**



4 **DC LED Engine Retrofit Kits**



6 **DirectAC LED Retrofit Kits**



8 **Canopy LED Retrofit Kit**



9 **Highbay LED Retrofit Kit**



10 **HotSpot1 LED Emergency Retrofit Kits**



11 **HotSpot Constant Power LED Emergency Drivers**

Back Cover **Contact Us**



High-Efficiency DC LED Retrofit Kits

The next generation of Fulham’s innovative DC LED engines provide increased efficacy for lower energy use and cost savings. Round and rectangular form factors with universal voltage and 0-10V dimming standard.



Model Number	Input Watts	Input Voltage (VAC)	Lumens @4000K	Efficacy	Dimming Type	Dimensions (Inches)	Max Case Temp (Tc) Module / Driver
VKMUNV008RT840A	8	UNV	1400	151	0-10V	7.4"L x 4.7"W x 0.92"H	105°C/90°C
VKMUNV018RT840A	17	UNV	2675	142	0-10V	7.4"L x 4.7"W x 1.18"H	105°C/90°C
VKMUNV008RD840A	8	UNV	1400	151	0-10V	7.83" dia x 0.92"H	105°C/90°C
VKMUNV012RD840A	12	UNV	2115	152	0-10V	7.83" dia x 0.92"H	105°C/90°C
VKMUNV018RD840A	17	UNV	2675	142	0-10V	7.83" dia x 1.18"H	105°C/90°C
VKMUNV025RD840A	25	UNV	4015	145	0-10V	7.83" dia x 1.18"H	105°C/90°C

Linear HO Kits

High output, easy-to-mount linear modules paired with efficient, high power drivers. Designed for use in highbays, vapor tight, and troffers, these cULus Classified kits are ideal for T5HO retrofit projects.

- Multiple power levels, including programmable driver option
- 22” and 44” module length options
- Universal voltage (120V-277V), 0-10V dimming standard
- Aluminum extrusion heatsink with preinstalled magnets
- Includes wiring harness for installing multiple lamps



DirectAC Linear Engines

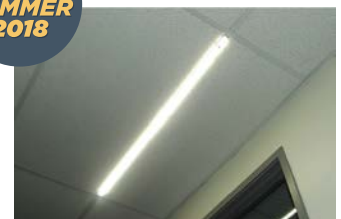
Low-profile, universal voltage retrofit kits featuring DirectAC Drive on integrated LED boards. New linear form factor allows retrofit of a wide range of luminaires. TRIAC / ELV dimmable.

Model Number	Input Power	Max Lumens @4000K/80CRI	Length	Plate Shape
TJTUNV010AL840B	10W	1065	5.5”	Linear
TJTUNV015AL840B	15W	1680	11”	
TJTUNV030AL840B	30W	3360	22”	



HotSpot EZ Exit

The innovative alternative to traditional emergency lights. Linear LED strips mount seamlessly in standard T-grid ceilings, with constant power emergency drivers mounted out of sight on top of the grid. During power outages the system provides at least 90 minutes of reliable, hassle-free emergency lighting.





DC LED Engine Retrofit Kits

*The simple, field-installable solution
for converting existing luminaires to LED*



Retrofitting existing luminaires to efficient LED technology has never been easier. Fulham Vizion Retrofit Kits are available in round, half-round, and rectangular configurations to fit most standard fixtures. As cULus Classified Kits, they are suited for either field installation or factory retrofits. 0-10V and TRIAC / ELV dimmable models, as well as a wide range of color temperature options, are available.

- Highly efficient LED technology reduces energy costs
- Protect your investment by preserving existing luminaires
- No bulbs to change means lower maintenance costs
- Simple installation can be done in the field in minutes
- ENERGY STAR® Luminaire 2.0 Listed (for rebate programs)
- Kits include LED Engine installation hardware, required UL Classified labels, and installation instructions



Specifications

Beam Angle	120°
CRI	80 Standard, 90 Available
Operating Ambient Temp. Range (Ta)	-35°C to + 45°C (-31°F to + 113°F)
Estimated Lumen Maintenance (L70)	>60,000 hours at Max Tc
Color Consistency	Binning per ANSI C78.377-2008; 7 SDCM
Safety/Compliance	Class 2 Lighting System; cULus File # E365124 (UL 1598C); ENERGY STAR; RoHS Compliant; FCC Part 15B
Warranty	5 years @ Max Tc from the date of manufacture

Round Models

Model Number	Input Watts	Input Voltage (VAC)	Lumens @4000K	Dimming Type	Dimensions (Inches)	Max Case Temp (Tc) Module / Driver	ENERGY STAR Listed*	ENERGY STAR CSD*
TKMUNV011RDxxx1	11	UNV	1155	0-10V	7 dia. x 0.95 H	90°C / 90°C		✓
TKT120013RDxxx1	13	120	1445	TRIAC/ELV	7 dia. x 0.95 H	90°C / 88°C		✓
TKMUNV013RDxxx1	13	UNV	1445	0-10V	7 dia. x 0.95 H	90°C / 90°C		✓
TKT120021RDxxx1	21	120	2305	TRIAC/ELV	9 dia. x 1.2 H	90°C / 80°C		✓
TKMUNV021RDxxx1	21	UNV	2305	0-10V	9 dia. x 1.2 H	90°C / 86°C		✓
TKT120025RDxxx1	25	120	2880	TRIAC/ELV	9 dia. x 1.2 H	90°C / 80°C		✓
TKMUNV025RDxxx1	25	UNV	2880	0-10V	9 dia. x 1.2 H	90°C / 86°C		✓
TKMUNV032RDxxx1	32	UNV	3200	0-10V	9 dia. x 1.2 H	90°C / 90°C		✓
TKUNV032RDxxx1	32	UNV	3200	Non-dimming	9 dia. x 1.2 H	90°C / 90°C		✓
TKMUNV039RDxxx1	39	UNV	4000	0-10V	9 dia. x 1.2 H	90°C / 90°C		✓
TKUNV039RDxxx1	39	UNV	4000	Non-dimming	9 dia. x 1.2 H	90°C / 90°C		✓

Half-Round Models

TKMUNV011HRxxx1	11	UNV	1155	0-10V	7 dia. x 1.22 H	90°C / 90°C		
TKT120013HRxxx1	13	120	1445	TRIAC/ELV	7 dia. x 1.22 H	90°C / 88°C		✓
TKMUNV013HRxxx1	13	UNV	1445	0-10V	7 dia. x 1.22 H	90°C / 90°C		✓

Rectangular Models

TKMUNV011RTxxx6	11	UNV	1155	0-10V	7 L x 4 W x 1.22 H	90°C / 90°C		
TKT120013RTxxx6	13	120	1445	TRIAC/ELV	7 L x 4 W x 1.22 H	90°C / 88°C		✓
TKMUNV013RTxxx6	13	UNV	1445	0-10V	7 L x 4 W x 1.22 H	90°C / 90°C		✓

* ENERGY STAR designations: Listed = Luminaire 2.0. CSD= Certified Subcomponent Database

TKMUNV011RDxxx1

Configuration

- 0 = Standard 80 CRI
- 1 = 90 CRI
- 2 = 80 CRI & Conformal Coating (Outdoor)
- 3 = 90 CRI & Conformal Coating (Outdoor)

Color Temperature

- | | |
|------------|------------|
| Standard: | Custom: |
| 27 = 2700K | 35 = 3500K |
| 30 = 3000K | 50 = 5000K |
| 40 = 4000K | |



DirectAC LED Retrofit Kits

*Efficient, universal voltage retrofit kits
for low-profile, dimmable applications*



DirectAC LED Retrofit Kit Engines provide a cost-efficient, reliable solution for wall sconces and ceiling luminaires. These innovative engines eliminate the need for an LED driver, creating a lower profile and simplifying installation. They are available in various power levels from 10-34W, with standard TRIAC/ELV dimming, a range of color temperatures, and CRI up to 90. These cURus and cULus Classified kits include installation hardware and labels, and are suitable for open or fully enclosed luminaires.

- Universal voltage input
- Very low flicker, meets Title 24 requirements
- AC Direct Drive on integrated LED board
- Smooth TRIAC/ELV dimming down to 10%
- High voltage barrier and 5VA rated lens
- Lower energy costs, longer lifespan than fluorescent
- Standard mounting holes for easy installation
- UL Classified, ENERGY STAR Luminaire 2.0
- Retrofit hardware and labels included
- Suitable for glass or plastic diffusers, open or closed luminaires



COMING SOON
LINEAR MODELS
SEE PAGE 3

Specifications

Input Voltage	UNV (120-277VAC)
Angle	120°
Flicker Percentage	<30%
CRI	80 standard, 90 available
Operating Ambient Temp. Range (Ta)	-35°C to +50°C
Estimated Lumen Maintenance (L70) / Color Consistency	50,000 hours / 3 SDCM
PCB Material	MCPCB (for superior thermal management)
Lens Material	Optical Grade Polycarbonate (5VA Flame rated)
Safety/Compliance	RoHS, cURus, ENERGY STAR Luminaire 2.0 Listed
Protections	Surge 2.5kV; Over temperature control
Available Color Temperatures	Standard options: 3000K, 3500K, 4000K. Also available: 2700K, 5000K
Warranty	5 Years @ Max 2700K from the date of manufacture

Universal Voltage DirectAC Retrofit Kits

Model Number	Input Power	Max Lumens @4000K/80CRI	Dimensions	Plate Shape	ENERGY STAR Listed*	ENERGY STAR CSD*
TJTUNV010ACxxxB	10W	1065	3.11" Dia. x 0.71" H	Circular		✓
TJTUNV015ACxxxB	15W	1680	5.08" Dia. x 0.69" H	Circular		✓
TJTUNV015ARxxxB	15W	1725	7.4" L x 4" W x 0.81" H	Rectangular		✓
TJTUNV023ACxxxB	23W	2540	6.97" Dia. x 0.81" H	Circular		✓
TJTUNV034ACxxxB	34W	3685	9.55" Dia. x 0.81" H	Circular		✓

* ENERGY STAR designations: Listed = Luminaire 2.0. CSD= Certified Subcomponent Database

TJTUNV010ACxxxB

Configuration

- 8= Standard 80 CRI
- 9 = 90 CRI

Color Temperature

- | | |
|------------|------------|
| Standard: | Custom: |
| 30 = 3000K | 27 = 2700K |
| 35 = 3500K | 50 = 5000K |
| 40 = 4000K | |



Canopy LED Retrofit Kit

An efficient, field-installable LED replacement for HID and CFL canopy luminaires



Fulham's new Canopy LED Retrofit Kit is a complete, field-installable solution for canopies, parking garages, and similar applications. It offers universal voltage input, 0-10V dimming, high power factor, and low THD, making it an ideal replacement for HID systems up to 250W. Listed on the DLC® Qualified Products List to facilitate energy rebates, the kit can be installed in less than 10 minutes. An integrated programmable driver provides multiple lumen output options and enhanced thermal management.

- Listed on DLC® Qualified Products List for energy rebates
- Advanced optics for even light distribution
- Compatible with daylight harvesting controls, occupancy sensors, and building automation systems for enhanced energy savings
- Integrated thermal management via NTC resistors



Specifications	
Input Voltage	120-277VAC; 50/60 Hz
Input Current	0.54A (Max.)
Input Power	65W
Input Power Factor	> 0.97
Operating Ambient Temp. Range (Ta)	-20 to +45°C / -4 to +113°F
Estimated Lumen Maintenance	L70 = >51,000hrs @ 100°C/ L90 = >51,000hrs @ 100°C (TM-21 Reported)
Color Consistency	Binning per ANSI C78.377-2015 @ 85°C; 5 SDCM
Safety/Compliance	Driver: cURus (E342838: T1M1UNV105P-60F; T1A1UNV105P-60F) Module: cURus (E351548: TMU150085ECXYA) Retrofit Kit: cULus (E365124: TRxUNV065ECXXA) DLC 4.2: Outdoor Canopy Retrofit (I.D: PUVVMB00 for 4K/1050mA and I.D: PQ5093CU for 5K/1050mA) LED Class 2 Lighting System; Dry or Damp Locations Driver Surge Protection: L-N 2kV, L&N-G 4kV; RoHS compliant
Warranty	5 years

Universal Voltage Canopy LED Retrofit Kit						
Model Number	Dimming Type*	Driver Output Current Setting (mA)	Nominal Lumens @4000K/80CRI (lm)	Efficacy (lm/W)	Available CCT	Dimensions (Dia. x H)
TRMUNV065EC8xxA	0-10V Dimming; 100%-0%	1050 (Default)	8700	134	4000K 5000K	10" x 1.26"
		850	7165	138		
		650	5570	142		
		450	3925	145		
		250	2210	142		

* DALI option also available, made to order



Highbay LED Retrofit Kit

An innovative, energy-saving retrofit kit for highbay applications



Fulham’s Highbay LED Retrofit System is an energy-efficient, field-installable replacement for HID highbay applications. Available for use as a retrofit kit or standalone luminaire, it is composed of a WorkHorse LED programmable driver, Vizion constant current round module, lens, mounting collar, heat sink, and driver housing. The system fits common 822/825 and S22 acrylic refractors and is compatible with daylight harvesting controls, occupancy sensors, and building automation for even greater energy savings.

- Fully assembled LED retrofit system providing up to 25,466 lumens
- Listed on DLC® Qualified Products List for energy rebates
- cULus Classified for 10-minute field installation
- cULus Listed for use as standalone luminaire (no original components required)
- Module features surface mounted device (SMD) LEDs and integrated thermal feedback for higher efficiency and reliability
- Programmable driver allows replacement of common 100, 175, 250, and 400W HID systems
- L70 Calculated, per TM-21, at 100,000 hours (Tc=100°C)



Specifications

Beam Angle	120°
Power Factor	> 0.9
Operating Ambient Temp. Range (Ta)	-25 to +45°C / -13 to +113°F
Estimated Lumen Maintenance (L70)	L70 > 60,000hrs / L90 > 38,000hrs (TM-21 Reported) L70 > 100,000hrs / L90 > 20,000hrs (TM-21 Calculated)
Color Consistency	Binning per ANSI C78.377-2011; 4 SDCM
Safety/Compliance	cULus Classified (E365124) DLC 4.0 High Bay Retrofit category: Indoor High-Bay* Non-Class 2 Lighting System IP20: Dry and Damp Locations; Surge Protection: 4KV/6KV; RoHS compliant
Warranty	5 years

* Standard model (TRMUNV220AC850A) is DLC QPL Listed. Other CCT and CRI options are not listed. Visit <https://www.designlights.org/search/> for more details.

Universal Voltage Highbay LED Retrofit Kit

Model Number	Input Voltage (VAC)	Input Current (A)	Nominal Input Power (W)	Nominal Lumens @ 5000K/80CRI (lm)	Dimming Type	Dimensions
TRMUNV220ACxxxA	120-277; 50/60 Hz	1.79 @ 120VAC	214	25,466	0-10V	11.5" dia. x 12.4" H



HotSpot1 LED Retrofit Kit

Reliable emergency LED lighting for common troffer installations



Ideal for LED tube retrofits

Fulham's HotSpot1 kits provide easy-to-install emergency LED lighting for common troffer installations, including Type A, B, and C LED tube retrofits. They are UL Classified for field or factory installation, with a range of battery and module options to fit any situation. Each kit includes a HotSpot1 emergency LED driver, battery pack, LED module, required hardware, the necessary UL Classified label, and complete installation instructions.

- Quick plug-n-play room-side installation
- High efficiency, high lumen output LEDs
- Range of module and battery configurations to fit most luminaires



Specifications

Input Voltage	120V-277V (UNV)	Input Power	<4W	Battery Type	NiCd 3.6VDC
Surge Protection	C62.41 (TVS)	Output Voltage	3.6V	Illumination Time	Minimum 90 min.
Over Current Protection	Fuse	Output Short Circuit Protection	Self Resetting PTC	Output Classification	UL 1310 / Class 2
Input Current	0.07A	Recharge Time Required	24 hours	Ambient Temperature	0°C - 50°C

HotSpot1 LED Retrofit Kits

Model Number	Watts	Lumen Output	Comparable Fluorescent Lumen Output	Estimated Run Time (Mins)	Module Dimensions (LxW)	Case Qty.
Linear Module						
FHSKITT03LNC	3	450	720	145	4.68" x 0.82"	10
FHSKITT03LND	3	450	720	200	4.68" x 0.82"	10
FHSKITT03LNF	3	450	720	360	4.68" x 0.82"	20
FHSKITT03LNFL*	3	450	720	360	4.68" x 0.82"	20
FHSKITT04LNC	4	500	800	145	4.68" x 0.82"	10
FHSKITT04LND	4	500	800	200	4.68" x 0.82"	10
FHSKITT04LNF	4	500	800	360	4.68" x 0.82"	20
Linked Linear (2 Modules)						
FHSKITT07LND	7	900	1440	100	4.68" x 0.82"	10
FHSKITT07LNF	7	900	1440	180	4.68" x 0.82"	20
FHSKITT07LNFL*	7	900	1440	180	4.68" x 0.82"	20
Linked Linear (3 Modules)						
FHSKITT10LNF	10	1350	2160	120	4.68" x 0.82"	20
FHSKITT10LNFL*	10	1350	2160	120	4.68" x 0.82"	20
Small-H Module						
FHSKITT06SHC	6	750	1200	90	3.54" x 3.93"	10
FHSKITT06SHD	6	750	1200	125	3.54" x 3.93"	10
FHSKITT06SHF	6	750	1200	235	3.54" x 3.93"	20
FHSKITT10SHF	10	1250	2000	135	3.54" x 3.93"	20
Large-H Module						
FHSKITT08LHD	8	1000	1600	90	5.71" x 3.93"	10
FHSKITT08LHF	8	1000	1600	175	5.71" x 3.93"	20
FHSKITT10LHF	10	1250	2000	135	5.71" x 3.93"	20

* Linear battery



HotSpot Constant Power LED Emergency Drivers

Field-installable, constant power output for LED luminaires



The HotSpot Constant Power LED Emergency Driver adds field-installable emergency capability to existing LED luminaires, including Type C LED tube retrofits. During a power outage, the emergency driver automatically engages, providing a constant source of power to the luminaire's LED modules for at least 90 minutes of reliable emergency illumination. The cULus Classified driver is designed for flexibility, with multiple mounting options, a conduit feed, and an LED illuminated test switch, so it can be easily installed in almost any situation while meeting local emergency lighting requirements.

- Field-installable LED emergency backup
- Constant power design for reliable lumen output
- UNV 120-277V, 50/60HZ input
- Multiple power levels available (5W-17W)



Specifications

Input Voltage	120-277V (UNV)
Output Voltage	20-50VDC
Surge Protection	Per C62.41 (TVS)
Recharge Time	24 hours
Ambient Temperature	0°C - 50°C
Output Type	Class 2
RFI/EMI	FCC Part 15A Non-Consumer
Illumination Time	Minimum 90 minutes

HotSpot Constant Power Drivers

Model Number	Output Power (W)	Output Lumens*	Output Current (mA)	Dimensions (L x W x H)
FHSCP-UNV-5WL	5	800	100-250	11.5" x 2.6" x 1.5"
FHSCP-UNV-7.8WL	7.8	1250	156-390	15.4" x 2.6" x 1.5"
FHSCP-UNV-10.7WL	10.7	1700	214-535	15.4" x 2.6" x 1.5"
FHSCP-UNV-13.7WL	13.7	2200	274-685	19.2" x 2.6" x 1.5"
FHSCP-UNV-17WL	17	2700	340-850	19.2" x 2.6" x 1.5"

* Based on 160 lumens/watt light source

Contact US

Visit **www.fulham.com** for product information, sales representative contact info, technical documentation, and more.

Fulham Headquarters (North America)

12705 S. Van Ness Avenue
Hawthorne, CA 90250
Tel: +1 323.599.5000
Fax: +1 323.754.9060
order@fulham.com
www.fulham.com

Fulham Client Services

Order processing, technical
support, product information,
requests for quotations
Tel: +1 323.599.5000
Fax: +1 323.794.9060
order@fulham.com

Fulham Warranty Department

Tel: +1 323.599.5001
warranty@fulham.com

Global Locations & Contacts

Fulham Company B.V. (Europe)

Berenkoog 56
1822 BZ Alkmaar
Netherlands
Tel: +31.(0)72.572.3000
sales.eu@fulham.com

Fulham Company Ltd. (Hong Kong)

Unit 6, 6/F Kowloon Plaza
485 Castle Peak Road
Cheung Sha Wan, Kowloon
Hong Kong
Tel: +852.2314.4801
Fax: +852.2314.4186
hongkongsales@fulham.com

Fulham Electronic Co. Ltd. (South China)

Room 604, Vanke Tower, Hongqi Road,
Nancheng District, Dongguan City,
Guangdong Province, P.R. China
Post Code: 523000
Tel: +86.769.2199.2606
Fax: +86.769.2199.2605
southchinasales@fulham.com

Fulham Electronic Co. Ltd. (Central, East & North China)

Room 302, Xing Yuan Technology Plaza
No 418, Gui Ping Road
Caohe-Jing Hi-Tech Park
Shanghai, P.R. China
Post Code: 200233
Tel: +86.21.6495.2777
Fax: +86.21.5426.5271
centralchinasales@fulham.com

Fulham Company Ltd. (Middle East)

LOB-2, No 127 P.O. Box 261051
Jebel Ali Free Zone, Dubai
United Arab Emirates
Tel: +9714.8873577
Fax: +9714.8873599
fulhamdubai@fulham.com

Fulham (India) Pvt. Ltd.

343, Kaliandas Udyog Bhavan
Sadanand Tandel Marg
Near Century Bazar
Prabhadevi, Mumbai 400025
India
Tel: +91.22.66388775-9
gmalkani@fulham.com
sghose@fulham.com

Fulham (India) Pvt. Ltd.

Survey No. 26-3
Village Narhe
Taluka Haveli, Pune 411041
India
Tel: +91.20.24690703/4
Fax: +91.20.24690712
gmalkani@fulham.com
sghose@fulham.com

